



Rules

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Rules and Procedures

- Preliminary rules open for comment until September 1, 2004
- Final rules available before October 1, 2004
- DARPA will publish procedure documents with details about videos, site visits, NQE, etc.
 - E-mail announcement



Funding Restrictions

Underlying principles:

- Vehicles may not be developed, tested, or operated using government support
- Vehicles may not be developed, tested, or operated using facilities or property that are government-owned and that are not openly available

Please contact GrandChallenge@darpa.mil with questions



Frequently Asked Questions





Q. May foreign teams participate?

A. Yes. All teams need:

- **A US Citizen as their team leader**
- **To bring their vehicle to the US
for the Site Visit**



Q. What are the restrictions on participation by Government employees?

A. Government employees may participate:

- On their own time**
- Without using Government-supplied equipment, supplies, labor, or facilities**



Q. Is there a limit to the number of vehicles a team may enter?

A. Each team may enter only one vehicle, however an organization may sponsor any number of teams.



Q. May an individual lead more than one team?

A. A team leader may lead only one team, however an individual may be a member of more than one team.



Q. What resources are available to help sponsors and teams get together?

A. The Discussion Forum on the Grand Challenge web site may be useful.

Forum Topics

Obstacle detection	Media Coverage
Position Location – GPS	Media Issues
Other – Sensing	Current Rules
Navigation	Other rules issues
Autonomy	New Rules
Sensor Control	Team Sponsorship
Other –Behavior – Software	Team Leadership
Mechanics	Competitor Conference
Vehicle - Chassis	Other-Miscellaneous



Q. What type of media coverage should we expect?

A. Here is what happened last year:



2004 Media Coverage

– Television and Radio (450+ segments):

- ABC World News Tonight
- NBC Nightly News
- CBS Evening News
- CNN and CNN Headline News
- National Public Radio
- Canadian Broadcasting

– Print and Web (200+ stories reaching 65 million readers):

- USA Today
- New York Times
- Los Angeles Times
- Washington Post
- Popular Science
- Scientific American
- Wired





Q. May we put the DARPA Grand Challenge logo on our vehicles now?

A. Use of the logo is limited to vehicles that have been entered in the Grand Challenge.

- DARPA will send a high resolution image of the logo to all teams that submit parts 1 and 2 of the application.**



Q. May we submit our video early so DARPA can suggest improvements?

A. Teams may submit their videos early, but notification will not be made until April 4, 2005.



Q. Is there a minimum size for vehicles?

A. No, however a vehicle that is unable to overcome obstacles and run the required distance will not pass the qualification process.



Q. Is there a maximum size for vehicles?

A. Yes, vehicles must be able to fit through underpasses that are 10 foot by 9 foot. Vehicles must weigh less than 20 tons.

- Vehicles above 10 tons must provide their own towing capability.**



Q. Is DARPA going to provide insurance?

A. DARPA plans to provide insurance under specific circumstances.

- There are three separate time periods that need to be discussed:**



Site Visit

Teams must ensure that they comply with all local, state, and federal laws regarding insurance requirements and the operation of their vehicle.

During the site visit, the teams accept full legal responsibility for safe operation of their vehicle



Teams in Possession of E-stop

DARPA and teams will sign a bailment agreement transferring responsibility for the E-stop to the teams upon receipt.

When a team accepts the E-stop system, it accepts full liability.



NQE and the Grand Challenge

A second bailment agreement is completed which transfers legal responsibility for the vehicle to DARPA during the NQE and the Grand Challenge.

A DARPA staff member controls the E-stop transmitter during this time.

DARPA carries limited liability insurance during the NQE and the Grand Challenge



Q. How can I protect my team's intellectual property?

A. Technical papers should contain no proprietary information, as they will be published on the web site.

- Communications with DARPA that contain proprietary information should be clearly labeled.**



Q. Why can't a team remove its vehicle early from NQE for testing?

A. Once a vehicle is inspected and placed under the bailment agreement, DARPA accepts legal responsibility for the vehicle.



Q. Will teams be allowed access to the route area prior to the event?

A. The route area will be announced in the summer of 2005.

- Any restrictions on route area access will be announced at that time.**



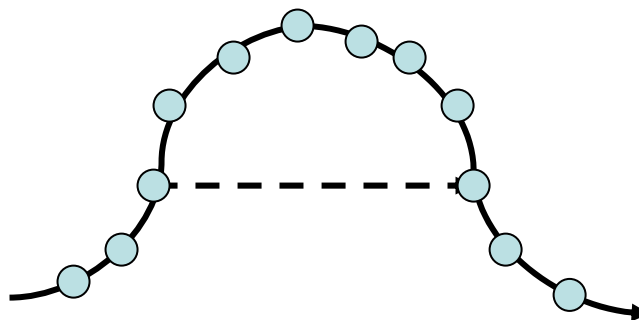
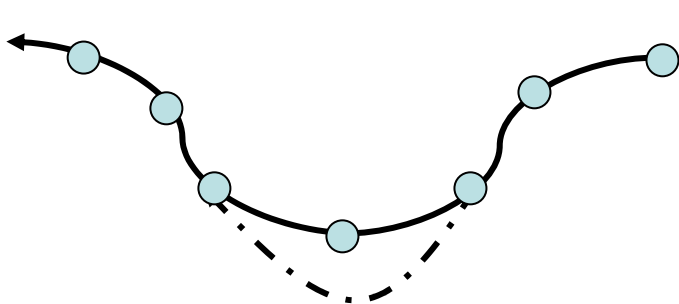
Q. Will all vehicles start at the same time?

A. Vehicles will start sequentially at fixed intervals.

- **The start order will be announced on October 6, 2005.**

Q. Does the vehicle have to pass through every waypoint in the RDDF?

A. Missing a point in the RDDF may not lead to automatic disqualification, vehicles that shorten the route by omitting waypoints may be disqualified.





Q. What does the lateral boundary offset (LBO) signify?

A. LBO's define the route width.

- **Drifting outside the LBO is not necessarily grounds for disqualification.**

Note: The LBO will be wide enough for vehicles to bypass any obstacles on the route.



Q. Will vehicles be disqualified if they strike or damage obstacles along the route?

A. Vehicles may be disqualified if the Chief Judge determines that the vehicle is not operating safely. A single obstacle touch alone may not result in disqualification.



Q. Will DARPA keep our vehicle if we win the prize?

A. After a final inspection, DARPA will return the vehicle to the team.

- DARPA makes no claim to any of the technology or the vehicle itself.**



Top 10 Ways to Fail at the DARPA Grand Challenge



#10

Miss the deadlines



Application: 2-11-05

Video: 3-11-05

Forget your proof of citizenship



**Team leader must prove US citizenship at
the site visit**

Use Government Funds



Use no labor, materials, patents, services or supplies paid for by government funding

Skip the Technical Paper



Due August 15, 2005

#6

Wait until NQE to perform testing



Test early and test often

Ignore the vehicle rules



**Weight limit, size limit, horn, lights,
tow points, and number**

You have 5 short minutes: Be ready

Damage the environment



DARPA takes environmental protection seriously

#2

Try a shortcut



Don't skip waypoints



And, the #1 way to fail at the
DARPA Grand Challenge is...

#1

Turn off the vehicle's sensors

